



内 燃 机 工 程

Chinese Internal Combustion Engine Engineering

2016年12月 第37卷 第6期

Vol. 37 No. 6 December 2016

目 次

| | |
|---|--|
| 370162 用 PODE _{3,4} 煤基燃料改善汽油/柴油宽馏分燃料的燃烧与排放特性 刘浩业, 王志, 王建昕 (1) | Simulation Analysis of the Effect of Dual-EGR on NO _x Emission and BSFC of VGT Diesel Engine DU Kai, SUN Yue-dong, YAO Jian-ming, ZHAO Qin-zhong (58) |
| Improving Combustion and Emission Characteristics of Gasoline/Diesel Wide Distillation Fuel (WDF) by PODE _{3,4} LIU Hao-ye, WANG Zhi, WANG Jian-xin (1) | 370172 甲醇汽油对发动机沉积物和润滑油的影响 李昕晏, 王银辉, 帅石金 (64) |
| 370163 VNT 对柴油机 NO _x 排放特性优化的研究 倪计民, 高旭南, 石秀勇, 陈泓, 王琦玮, 沙长泓 (9) | Impact of Methanol Gasoline on Engine Deposits and Lubricants LI Xin-yan, WANG Yin-hui, SHUAI Shi-jin (64) |
| Study on the Optimization of Diesel NO _x Emission Characteristics with VNT NI Ji-min, GAO Xu-nan, SHI Xiu-yong, CHEN Hong, WANG Qi-wei, SHA Chang-hong (9) | 370173 铜基菱沸石催化剂——适用于未来中国柴油车排放法规的选择性催化还原技术 杨晓帆, 唐为勇, 陈海波, 斯坦·罗斯 (72) |
| 370164 GDI 喷油器高速电磁阀动态响应监测方法的研究 姚春德, 银增辉, 陈志方, 耿培林, 窦站成 (15) | Cu-Chabazite Catalyst—The SCR Technology to Help Meet Future China's Diesel Vehicle Emission Regulations YANG Xiao-fan, TANG Wei-yong, CHEN Hai-bo, Stan Roth (72) |
| Research on Monitoring Method of Dynamic Response Characteristics of GDI Solenoid Injectors YAO Chun-de, YIN Zeng-hui, CHEN Zhi-fang, GENG Pei-lin, DOU Zhan-cheng (15) | 370174 压缩比对汽油 HCCI 燃烧和排放特性的影响 张开强, 李忠照, 章健勇, 方俊华, 吕兴才, 黄震 (79) |
| 370165 不同海拔高度下自然吸气柴油机经济性 & 热效率研究 刘胜吉, 陈勇, 王建, 曾瑾瑾, 韩维维 (20) | Effects of Compression Ratio on Combustion and Emission Characteristics of a HCCI Gasoline Engine ZHANG Kai-qiang, LI Zhong-zhao, ZHANG Jian-yong, FANG Jun-hua, LÜ Xing-cai, HUANG Zhen (79) |
| Effects of Altitude on Fuel Consumption and Thermal Efficiency of Naturally Aspirated Diesel Engines LIU Sheng-ji, CHEN Yong, WANG Jian, ZENG Jin-jin, HAN Wei-wei (20) | 370175 点火定时对增压直喷汽油机燃用甲醇汽油混合燃料微粒排放的影响研究 左子农, 曾东建, 裴毅强, 秦静, 韩志强, 李翔 (87) |
| 370166 重型柴油机高海拔严寒冷起动机性能试验研究 楼狄明, 阚泽超, 徐岩, 胡志远, 谭丕强 (26) | Investigation on the Effect of Ignition Timing on Particulate Emissions from a Turbo Charged GDI Engine Fueled with Gasoline/Methanol Blends ZUO Zi-nong, ZENG Dong-jian, PEI Yi-qiang, QIN Jing, HAN Zhi-qiang, LI Xiang (87) |
| Experimental Study on Cold Start Performance of Heavy Duty Diesel Engine in Frost Plateau Environment LOU Di-ming, KAN Ze-chao, XU Yan, HU Zhi-yuan, TAN Pi-qiang (26) | 370176 柴油机低氮燃烧及排放性能研究 谭亲明, 胡以怀 (93) |
| 370167 柴油机可控机械复合涡轮增压系统总效率优化研究 谢辉, 何诗洁 (31) | Research on the Combustion and Emission Characteristics of a Diesel Engine with Low-Nitrogen Intake Air TAN Qin-ming, HU Yi-huai (93) |
| Optimization of Overall Efficiency of Heavy Duty Diesel Engines Equipped with Controllable Mechanical Turbo-Compounding System XIE Hui, HE Shi-jie (31) | 370177 撞击平板壁面的柴油喷雾的燃油分布研究 毛立伟, 苏万华, 裴毅强 (98) |
| 370168 喷雾引导分层燃烧部分负荷喷油点火策略研究 宋东先, 王帅, 张秀珍, 裴培, 王宇, 高定伟 (37) | Study on Fuel Distribution of Diesel Spray Flat Wall Impingements MAO Li-wei, SU Wan-hua, PEI Yi-qiang (98) |
| Study on Injection and Ignition Strategy of Spray-Guided Stratified Combustion at Part Load SONG Dong-xian, WANG Shuai, ZHANG Xiu-zhen, PEI Pei, WANG Yu, GAO Ding-wei (37) | 370178 基于不同临界法预测曲轴疲劳极限载荷 孙嵩松, 俞小莉, 陈晓平, 李建锋 (105) |
| 370169 基于分形理论和热重分析的柴油机颗粒物物理特性研究 陈鬃, 梅德清, 顾萌, 袁银男 (44) | Crankshaft Fatigue Limit Load Prediction Based on Different Critical Distance Methods SUN Song-song, YU Xiao-li, CHEN Xiao-ping, LI Jian-feng (105) |
| Study on Physical Features of Diesel Particulates Based upon Fractal Theory and Thermo-gravimetric Analysis CHEN Zong, MEI De-qing, GU Meng, YUAN Yin-nan (44) | 370179 液压自由活塞发动机直流扫气设计及优化研究 张栓录, 赵长禄, 赵振峰, 张付军 (110) |
| 370170 基于线性主动抗扰的共轨柴油机轨压控制器设计及验证 凌健, 谢辉 (50) | Scavenging Design and Optimization for Hydraulic Free Piston Diesel Engine ZHANG Shuan-lu, ZHAO Chang-lu, ZHAO Zhen-feng, Zhang Fu-jun (110) |
| Design and Verification of a Linear Active Disturbance Rejection Control-Based Rail Pressure Controller for Common Rail Diesel Engines LING Jian, XIE Hui (50) | 370180 米勒循环改善增压直喷汽油机热效率的机理分析——部分负荷工况分析 郑斌, 李铁, 尹涛 (116) |
| 370171 双循环 EGR 对 VGT 柴油发动机 NO _x 排放和油耗影响的模拟分析 杜锴, 孙跃东, 姚建明, 赵钦忠 (58) | Mechanism of Improvements on Thermal Efficiency of Turbocharged Direct Injection Gasoline Engines by Miller Cycle; Partial Load Analysis ZHENG Bin, LI Tie, YIN Tao (116) |

- 370181 氧传感器响应变慢自适应空燃比闭环控制方法研究
 王东亮,肖剑,路录祥,孟祥楠,何浩 (122)
 Study on Adaptive Air-Fuel Ratio Close Loop Control Algorithm for Oxygen Sensor Slow Response WANG Dong-liang, XIAO Jian, LU Lu-xiang, MENG Xiang-tao, HE Hao (122)
- 370182 一种低噪声齿轮室盖板的设计方法 曾志星,黄豪中,李松林 (126)
 A Design Method of Low Noise Gearbox Cover ZENG Zhi-xing, HUANG HAO-zhong, LI Song-ling (126)
- 370183 发动机进气啸叫降噪研究 刘影,袁卫平,倪计民 (133)
 Research on Noise Reduction of Engine Inlet Air Whistling LIU Ying, YUAN Wei-ping, NI Ji-min (133)
- 370184 直喷增压汽油机扫气条件下喷油策略对超级爆震的影响 贾志超,王志,向守智,刘辉,朱航 (138)
 Suppression of Super-Knock in TC-GDI Engine Using Different Injection Strategy under Scavenging Conditions JIA Zhi-chao, WANG Zhi, XIANG Shou-zhi, LIU Hui, ZHU Hang (138)
- 370185 二次喷射对直喷增压汽油机混合气形成与燃油湿壁影响的数值研究 信曦,丁宁,张小矛,陈明,徐政,杨洋 (144)
 Numerical Research into Effect of Two-Stage Injection on Mixture Formation and Wall Wetting in a Turbo-charged GDI Engine XIN Xi, DING Ning, ZHANG Xiao-mao, CHEN Ming, XU Zheng, YANG Yang (144)
- 370186 基于PFI进气方式V型汽油机热力学试验研究 刘义强,朱允,张慧君,方会咏,赵春燕,王瑞平 (151)
 Thermodynamic Analysis of V Gasoline Engine Based on PFI Intake Way LIU Yi-qiang, ZHU Yun, ZHANG Hui-jun, FANG Hui-yong, ZHAO Chun-yan, WANG Rui-ping (151)
- 370187 基于状态矩阵的高压共轨系统喷油稳定性研究 白云,范立云,马修真,闫昕,刘洋 (156)
 Stability Study on Injection of Common Rail System Based on State Matrixes BAI Yun, FAN Li-yun, MA Xiu-zhen, YAN Xin, LIU Yang (156)
- 370188 高压共轨柴油机的转矩柔性控制策略研究 徐劲松,陈贵升,魏亮,董志辉,张韦 (164)
 Study on Flexible Torque Control Strategy for High Pressure Common Rail Diesel Engines XU Jin-song, CHEN Gui-sheng, WEI Liang, DONG Zhi-hui, ZHANG Wei (164)
- 370189 柴油机喷嘴喷孔非对称结构对近场喷雾特性的影响 吴玉强,王谦,高志胜,何志霞,孙伟,郇贇 (170)
 The Effect of Asymmetric Nozzle Hole Geometry of a Diesel Nozzle on the Near-Field Spray Characteristics WU Yu-qiang, WANG Qian, GAO Zhi-sheng, HE Zhi-xia, SUN Wei, LI Yun (170)
- 370190 内燃机鼻梁区内过冷沸腾两相流研究 雷冬旭,白敏丽,吕继组,王鹏,胡成志,王玉艳 (176)
 Two-Phase Heat Transfer Study in the Bridge Zone of Cylinder Head about Boiling Supercooled LEI Dong-xu, BAI Min-li, LÜ Ji-zu, WANG Peng, HU Cheng-zhi, WANG Yu-yan (176)
- 370191 氧化铝纳米冷却液对发动机冷却性能影响的分析 周晓蓉,王毅,唐伟力,黄豪中 (182)
 The Effect of Alumina Nano Coolant on Engine Cooling Performance ZHOU Xiao-rong, WANG Yi, TANG Wei-li, HUANG Hao-zhong (182)
- 370192 基于整车振动性能的动力总成悬置系统设计优化 罗森,张宏波 (188)
 Design and Optimization of Powertrain Mount Based on Vehicle Vibration LUO Miao, ZHANG Hong-bo (188)
- 370193 复合型NSR催化剂的开发及性能验证 耿超然,魏小栋,邹杉,张武高 (193)
 Research of Compounded Catalyst of NO_x Storage and Reduction GENG Chao-ran, WEI Xiao-dong, ZOU Shan, ZHANG Wu-gao (193)
- 370194 负荷对柴油机微粒捕集器再生的影响 李弘扬,蔡忆昔,施蕴曦,李中华,徐辉 (200)
 The Effect of Engine Load on Diesel Particulate Filter Regeneration LI Hong-yang, CAI Yi-xi, SHI Yun-xi, LI Xiao-hua, XU Hui (200)
- 370195 进气门预开启对柴油机内部废气再循环率控制适应性研究 褚超美,王成润,洪佳骏 (205)
 Control of the Internal EGR Rate by Means of Intake-Valve Pilot-Opening CHU Chao-mei, WANG Cheng-run, HONG Jia-jun (205)
- 370196 再生温度对NTP再生EGR冷却器的影响 郑益,蔡忆昔,陈亚运,施蕴曦,李中华,李伟俊 (210)
 Effect of Regeneration Temperature on EGR Cooler Regeneration with NTP Technology ZHENG Yi, CAI Yi-xi, CHEN Ya-yun, SHI Yun-xi, LI Xiao-hua, LI Wei-jun (210)
- 370197 对置活塞二冲程发动机耗气特性研究 董雪飞,赵长禄,张付军,赵振峰 (216)
 Study on the Gas Consumption Characteristics of an Opposed-Piston Two-Stroke Engine DONG Xue-fei, ZHAO Chang-lu, ZHANG Fu-jun, ZHAO Zhen-feng (216)
- 370198 考虑材料塑性的某柴油机缸盖状态及疲劳分析 刘震涛,陈思南,黄瑞,尹旭,魏志明,俞小莉 (222)
 Analysis of Thermal State and Fatigue of a Diesel Engine Cylinder Head Considering Material Plasticity LIU Zhen-tao, CHEN Si-nan, HUANG Rui, YIN Xu, WEI Zhi-ming, YU Xiao-li (222)
- 370199 翅窗间距比对管带式散热器综合性能的影响 王迎慧,赵凌骏,邵楠 (229)
 Effects of Fin-to-Louver Pitch Ratio on Comprehensive Performance of Louver Finned-Tube Radiator WANG Ying-hui, ZHAO Ling-xiao, SHAO Nan (229)
- 370200 基于发动机稳态工况的整车WLTC循环油耗研究 李吉安,姚建明,吴旭陵 (235)
 Research on Vehicle WLTC Fuel Consumption Based on Engine Steady Working Conditions LI Ji-an, YAO Jian-ming, WU Xu-ling (235)
- 370201 双介质NTP反应器性能试验及空气放电产生NO_x的机理分析 王军,李超,唐炜 (241)
 Performance Test of Double-Dielectric NTP Reactor and Mechanism Analysis on the Generation of NO_x in Air Discharge WANG Jun, LI Chao, TANG Wei (241)
- 370202 一种改善增压天然气发动机动力性的方法及试验验证 张孔明,梁世希,金则兵,张帆,王科,廖诚 (246)
 A Method of Power Performance Improvement of a Turbocharged LNG Engine and Its Experimental Verification ZHANG Kong-ming, LIANG Shi-xi, JIN Ze-bing, ZHANG Fan, WANG Ke, LIAO Cheng (246)